

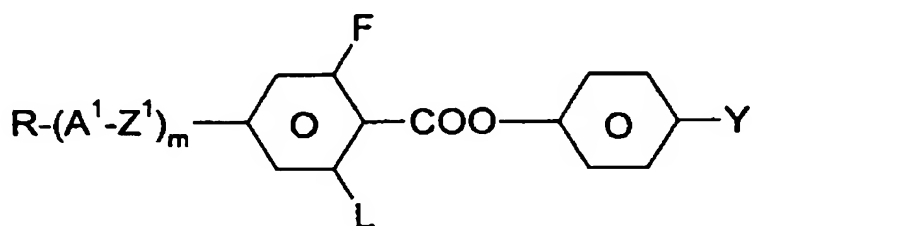
The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-22. (Cancelled):

23. (Previously Presented): A medium according to Claim 28, wherein said medium has a nematic phase down to -20°C , a clearing point above 80°C , and a dielectric anisotropy value $\Delta\epsilon$ of ≥ 4 .

24. (Currently Amended): A liquid-crystalline medium comprising:
at least one phenol ester of formula I



in which

R is H, an alkyl or alkenyl radical having up to 15 carbon atoms which is unsubstituted, monosubstituted by CN or CF_3 or at least monosubstituted by halogen, where, in addition, one or more CH_2 groups are optionally replaced by $-\text{O}-$, $-\text{S}-$, $-\text{CH}=\text{CH}-$, $-\text{C}\equiv\text{C}-$, $-\text{OC}-\text{O}-$ or $-\text{O}-\text{CO}-$ in such a way that O atoms are not linked directly to one another,

A^1 a) is a 1,4-cyclohexenylene or 1,4-cyclohexylene radical, in which in each case one or two non-adjacent CH_2 groups are each optionally replaced by $-\text{O}-$ or $-\text{S}-$,

b) is a 1,4-phenylene radical, in which one or two CH are each

optionally replaced by N,

c) is a piperidine-1,4-diyl, 1,4-bicyclo[2.2.2]octylene, naphthalene-2,6-diyl, decahydronaphthalene-2,6-diyl or 1,2,3,4-tetrahydronaphthalene-2,6-diyl radical,

where the radicals a), b) and c) are in each case unsubstituted or monosubstituted or polysubstituted by halogen atoms,

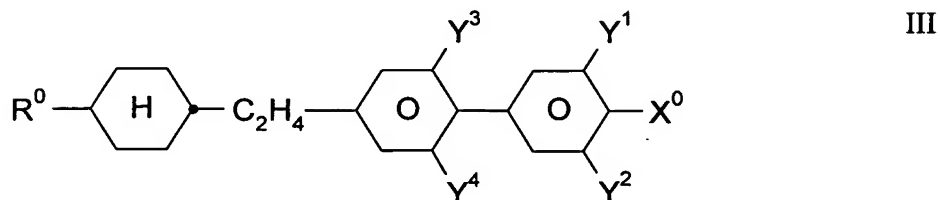
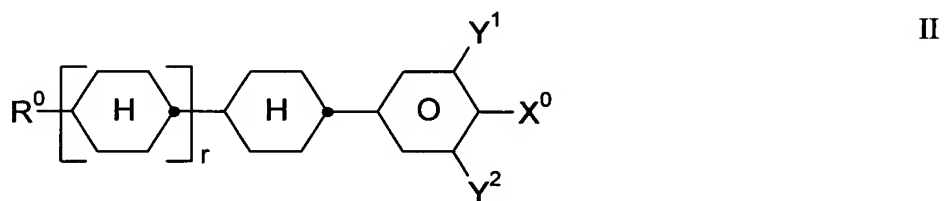
Z^1 is -CO-O-, -O-CO-, -CF₂O-, -OCF₂-, -CH₂O-, -OCH₂-, -CH₂CH₂-, -C₂F₄-, -C₂F₂-, -CH=CH-, -C≡C- or a single bond,

Y is F, Cl, or a monohalogenated or polyhalogenated alkyl, alkenyl, alkenyloxy or alkoxy radical having up to 5 carbon atoms,

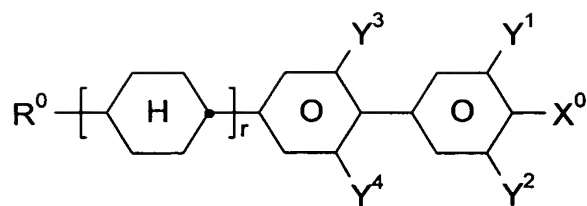
L is H or F, and

m is 0, 1 or 2; and

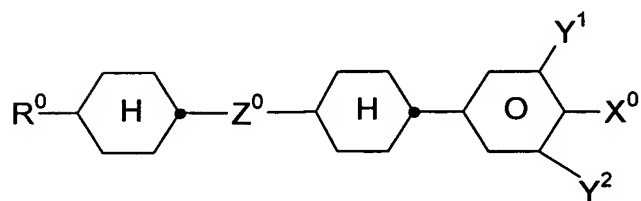
one or more compounds selected from formulae II, III, IV, V, VI, VII, VIII and IX:



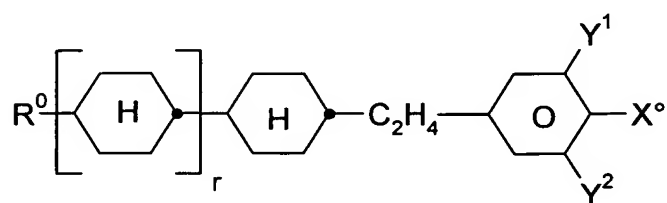
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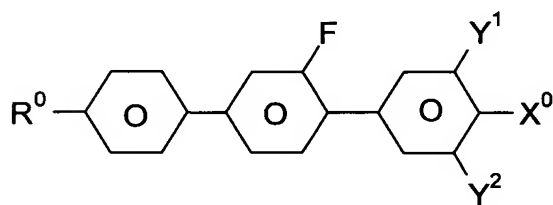
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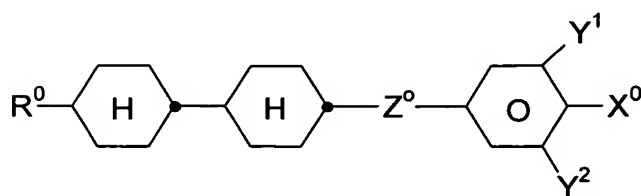
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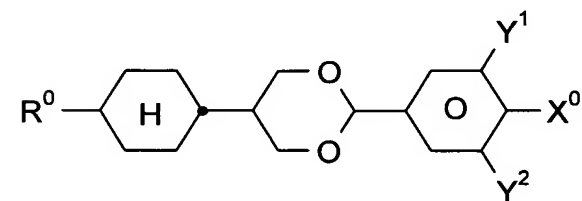
VII



VIII



IX



wherein

R^0 is n-alkyl, oxaalkyl, fluoroalkyl, alkenyloxy or alkenyl, each having up to 9 carbon atoms,

X^0 is F, Cl, or halogenated alkyl, halogenated alkenyl, halogenated or halogenated alkoxy, in each case having up to 6 carbon atoms,

Z^0 is $-C_2H_4-$, $-C_2F_4-$, $-CF_2O-$, $-OCF_2-$ or $-COO-$,

Y^1 , Y^2 ,

Y^3 and Y^4 are each, independently of one another, H or F, and

r is 0 or 1;

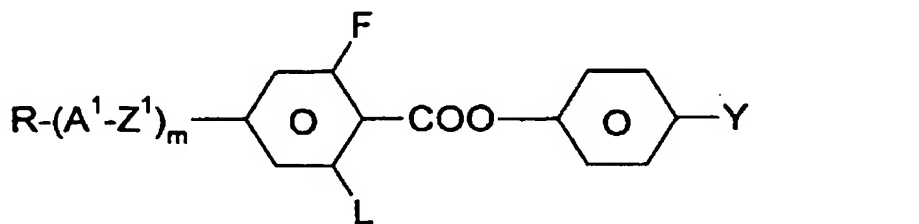
wherein said medium has a nematic phase down to -30°C , a clearing point above 90°C , and a dielectric anisotropy value $\Delta\epsilon$ of ≥ 4 .

25. (Previously Presented): A medium according to Claim 24, wherein said medium has a nematic phase down to -40°C , and a clearing point above 100°C .

26. (Previously Presented): A medium according to Claim 24, wherein said medium has a dielectric anisotropy values $\Delta\epsilon$ of ≥ 6 .

27. (Previously Presented): A medium according to Claim 24, wherein said medium has a TN threshold below 1.5 V.

28. (Currently Amended): A liquid-crystalline medium comprising:
at least one phenol ester of formula I



in which

R is H, an alkyl or alkenyl radical having up to 15 carbon atoms which is unsubstituted, monosubstituted by CN or CF₃ or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups are optionally replaced by -O-, -S-, -CH=CH-, -C≡C-, -OC-O- or -O-CO- in such a way that O atoms are not linked directly to one another,

A¹ a) is a 1,4-cyclohexenylene or 1,4-cyclohexylene radical, in which in each case one or two non-adjacent CH₂ groups are each optionally replaced by -O- or -S-,

b) is a 1,4-phenylene radical, in which one or two CH are each optionally replaced by N,

c) is a piperidine-1,4-diyl, 1,4-bicyclo[2.2.2]octylene, naphthalene-2,6-diyl, decahydronaphthalene-2,6-diyl or 1,2,3,4-tetrahydronaphthalene-2,6-diyl radical,

where the radicals a), b) and c) are in each case unsubstituted or monosubstituted or polysubstituted by halogen atoms,

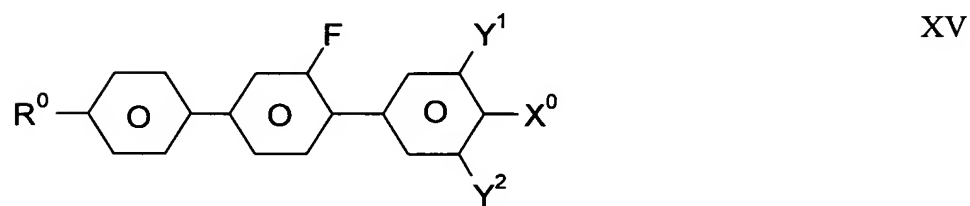
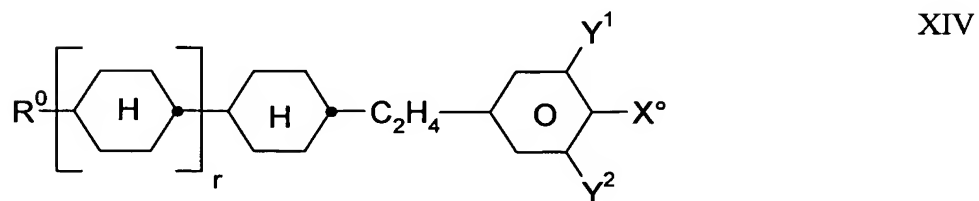
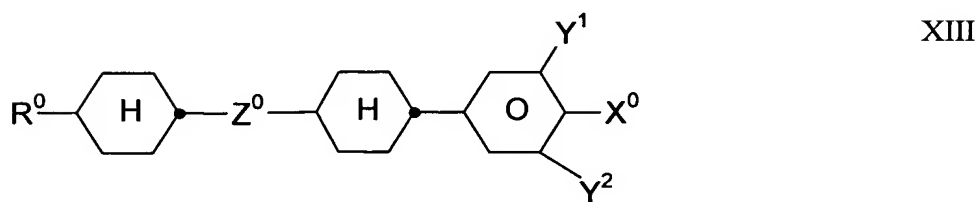
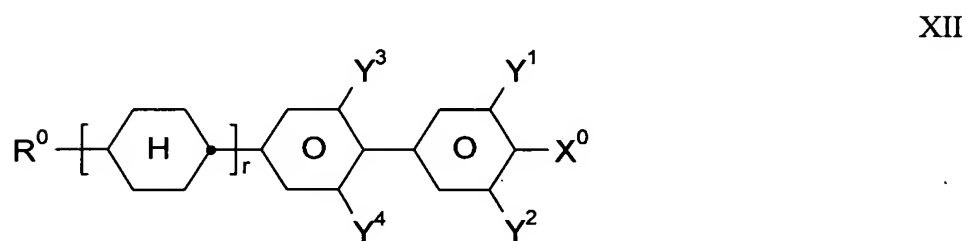
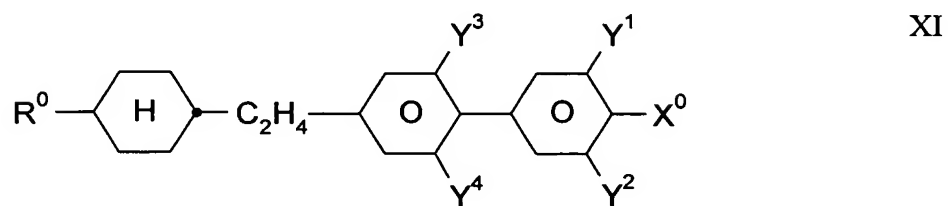
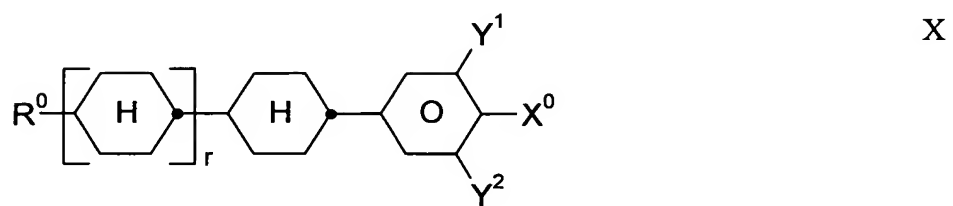
Z¹ is -CO-O-, -O-CO-, -CF₂O-, -OCF₂-, -CH₂O-, -OCH₂-, -CH₂CH₂-, -C₂F₄-, -C₂F₂-, -CH=CH-, -C≡C- or a single bond,

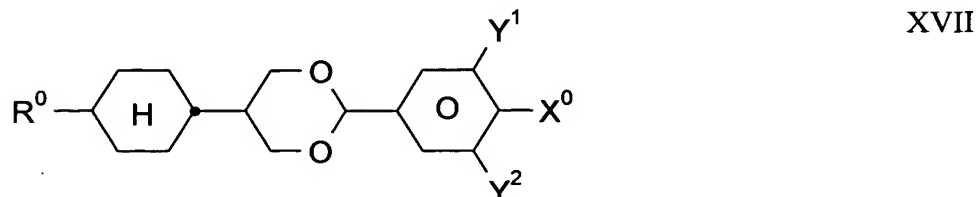
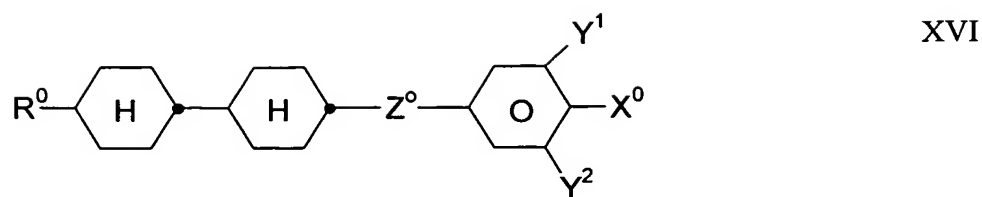
Y is F, Cl, or a monohalogenated or polyhalogenated alkyl, alkenyl, alkenyloxy or alkoxy radical having up to 5 carbon atoms,

L is H or F, and

m is 0, 1 or 2; and

one or more compounds selected from formulae II, III, IV, V, VI, VII, VIII and IX:





wherein

R^0 is n-alkyl, oxaalkyl, fluoroalkyl, alkenyloxy or alkenyl, each having up to 9 carbon atoms,

X^0 is F, Cl, or halogenated alkyl, halogenated alkenyl, halogenated or halogenated alkoxy, in each case having up to 6 carbon atoms,

Z^0 is $-C_2H_4-$, $-C_2F_4-$, $-CF_2O-$, $-OCF_2-$ or $-COO-$,

Y^1 , Y^2 ,

Y^3 and Y^4 are each, independently of one another, H or F, and

r is 0 or 1;

wherein said medium has a TN threshold below 1.3 V.

29. (Previously Presented): A medium according to Claim 28, wherein said medium has a TN threshold < 1.0 V.

30. (Previously Presented): A medium according to Claim 24, wherein the proportion of compounds of formula I in the medium is 5 to 50% by weight.

31. (Previously Presented): A medium according to Claim 24, wherein the proportion of compounds of the formulae II to IX in the medium is 30 to 70% by weight.

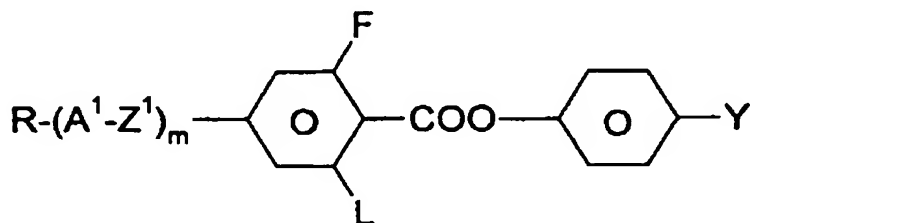
32. (Previously Presented): A medium according to Claim 24, wherein the flow viscosity ν_{20} at 20°C of the medium is $< 60 \text{ mm}^2 \cdot \text{s}^{-1}$.

33. (Previously Presented): A medium according to Claim 24, wherein the flow viscosity ν_{20} at 20°C of the medium is $< 50 \text{ mm}^2 \cdot \text{s}^{-1}$.

34. (Previously Presented): A medium according to Claim 24, wherein the nematic phase range of the medium is at least 90°.

35. (Previously Presented): A medium according to Claim 24, wherein the nematic phase range of the medium is at least 100°.

36. (Currently Amended): A liquid-crystalline medium comprising:
at least one phenol ester of formula I



in which

R is H, an alkyl or alkenyl radical having up to 15 carbon atoms which is unsubstituted, monosubstituted by CN or CF₃ or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups are optionally replaced by -O-, -S-, -CH=CH-, -C≡C-, -OC-O- or -O-CO- in such a way that O atoms are not linked directly to one another,

- A¹ a) is a 1,4-cyclohexenylene or 1,4-cyclohexylene radical, in which in each case one or two non-adjacent CH₂ groups are each optionally replaced by -O- or -S-,
- b) is a 1,4-phenylene radical, in which one or two CH are each optionally replaced by N,
- c) is a piperidine-1,4-diyl, 1,4-bicyclo[2.2.2]octylene, naphthalene-2,6-diyl, decahydronaphthalene-2,6-diyl or 1,2,3,4-tetrahydronaphthalene-2,6-diyl radical,

where the radicals a), b) and c) are in each case unsubstituted or monosubstituted or polysubstituted by halogen atoms,

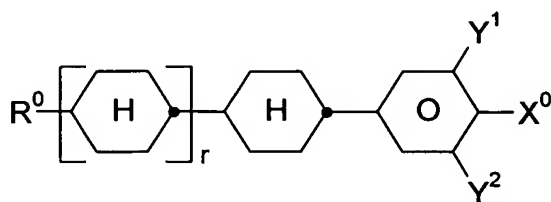
Z¹ is -CO-O-, -O-CO-, -CF₂O-, -OCF₂-, -CH₂O-, -OCH₂-, -CH₂CH₂-, -C₂F₄-, -C₂F₂-, -CH=CH-, -C≡C- or a single bond,

Y is F, Cl, or a monohalogenated or polyhalogenated alkyl, alkenyl, alkenyloxy or alkoxy radical having up to 5 carbon atoms,

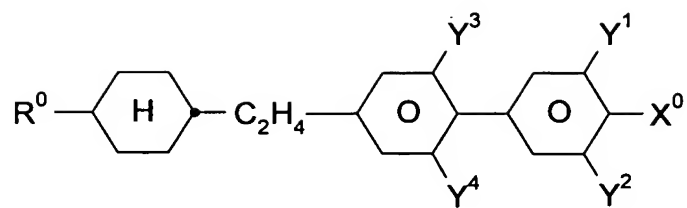
L is H or F, and

m is 0, 1 or 2; and

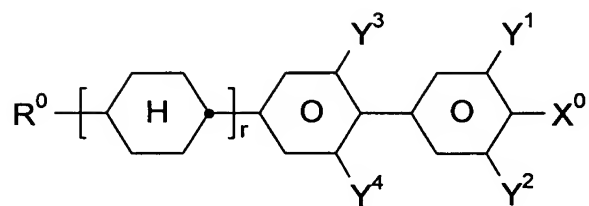
one or more compounds selected from formulae II, III, IV, V, VI, VII, VIII and IX:



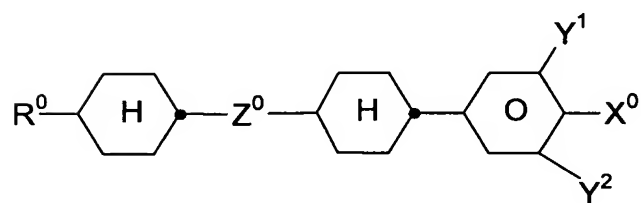
XVIII



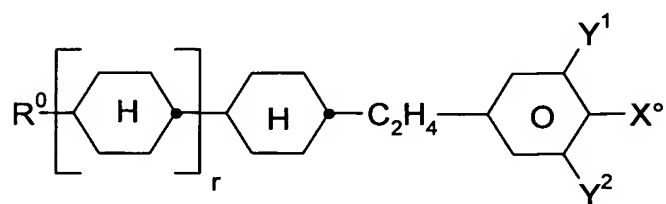
XIX



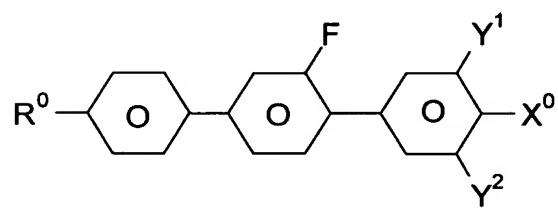
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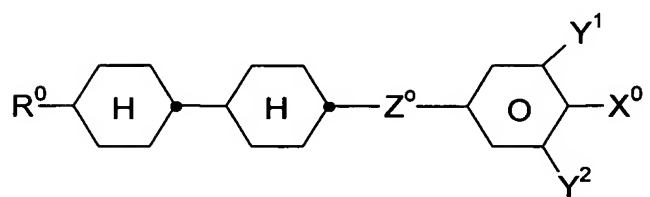
XXI



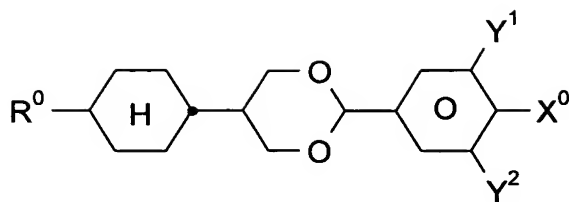
XXII



XXIII



XXIV



wherein

R^0 is n-alkyl, oxaalkyl, fluoroalkyl, alkenyloxy or alkenyl, each having up to 9 carbon atoms,

X^0 is F, Cl, or halogenated alkyl, halogenated alkenyl, halogenated or halogenated alkoxy, in each case having up to 6 carbon atoms,

Z^0 is $-C_2H_4-$, $-C_2F_4-$, $-CF_2O-$, $-OCF_2-$ or $-COO-$,

Y^1 , Y^2 ,

Y^3 and Y^4 are each, independently of one another, H or F, and

r is 0 or 1;

wherein the nematic phase range of the medium is extends at least from -30° to $+80^\circ$.

37. (Previously Presented): A medium according to Claim 24, wherein said medium contains two or more of compounds of the formula I, and the proportion of compounds of formula I in the medium is 5-95%.

38. (Previously Presented): A medium according to Claim 24, wherein said medium contains two or more of compounds of the formula I, and the proportion of compounds of formula I in the medium is 10-60%.

39. (Previously Presented): A medium according to Claim 24, wherein said medium contains two or more of compounds of the formula I, and the proportion of compounds of

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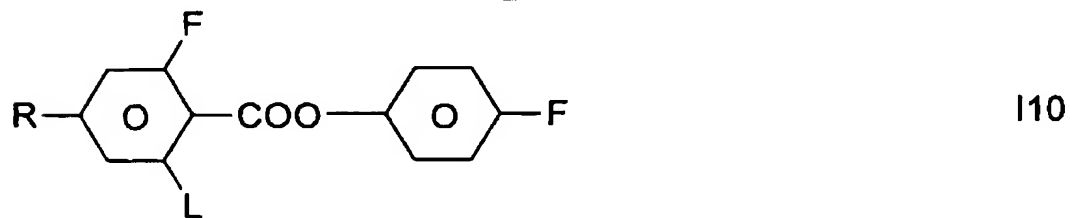
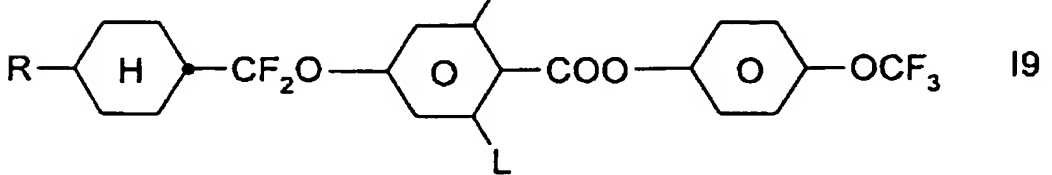
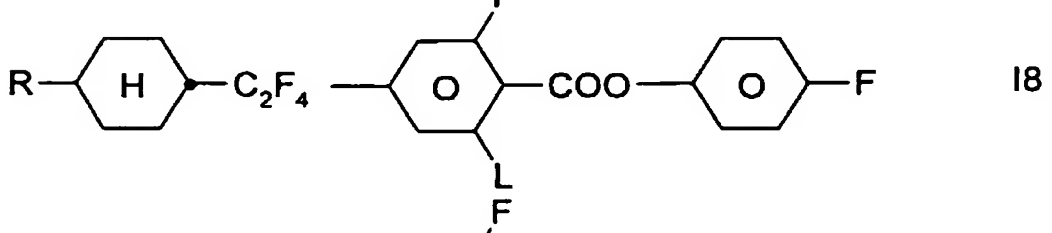
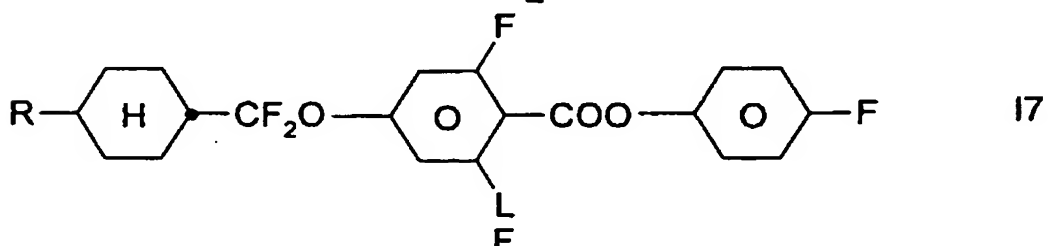
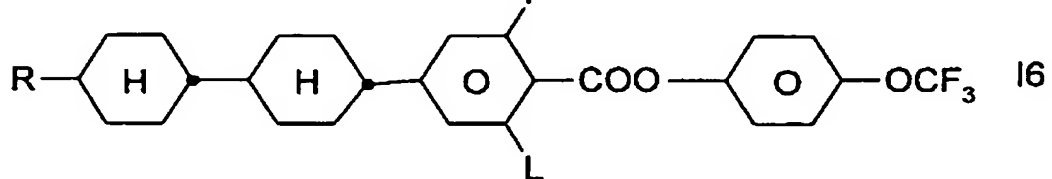
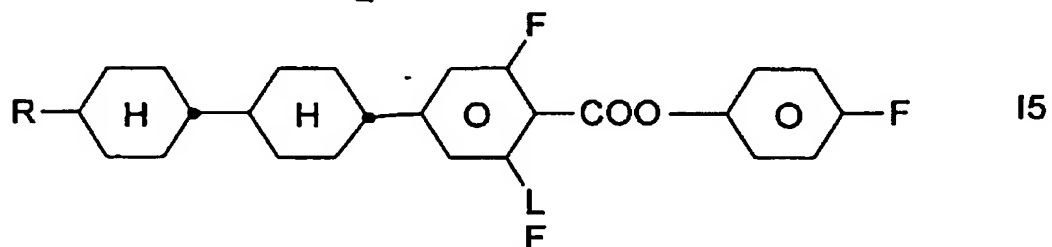
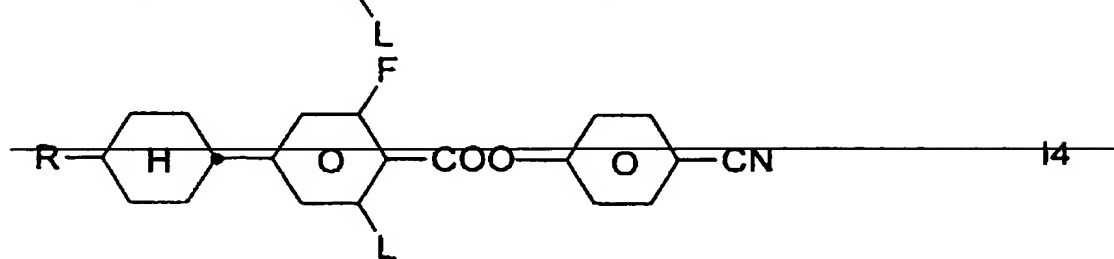
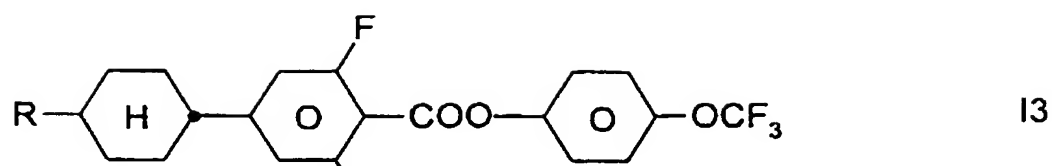
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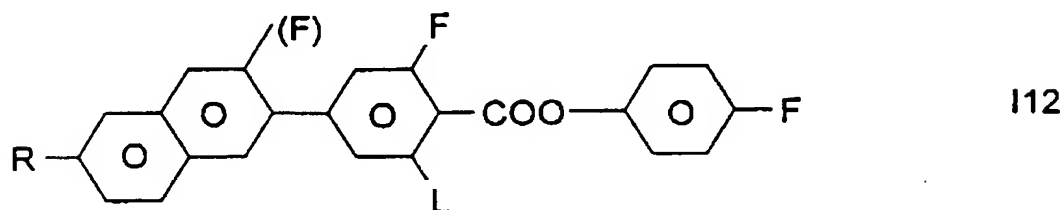
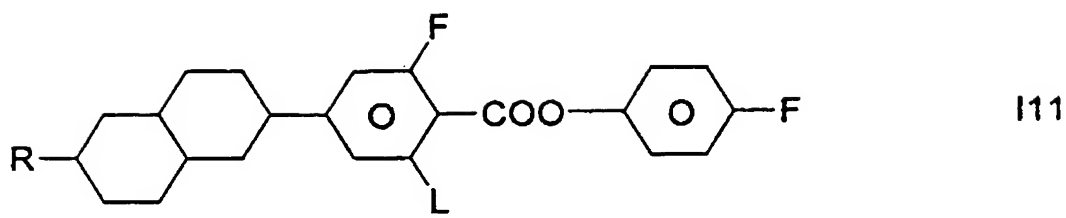
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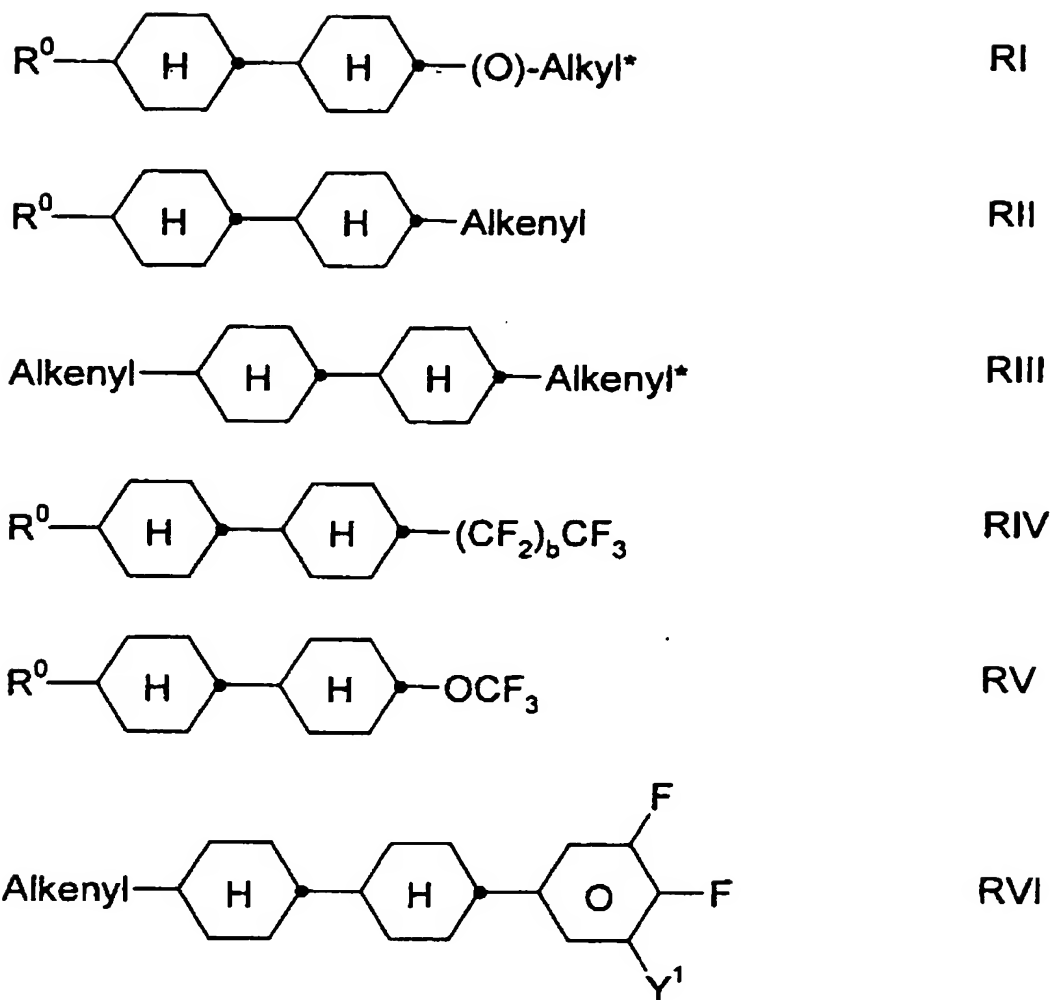
wherein

R is H, an alkyl or alkenyl radical having up to 15 carbon atoms which is unsubstituted, monosubstituted by CN or CF₃ or at least monosubstituted by halogen, where, in addition, one or more CH₂ groups are optionally replaced by -O-, -S-, -CH=CH-, -C≡C-, -OC-O- or -O-CO- in such a way that O atoms are not linked directly to one another,

L is H or F.

46. (Previously Presented): A medium according to Claim 24, wherein the proportion of compounds of the formulae I to IX in the medium is at least 50% by weight.

47. (Previously Presented): A medium according to Claim 24, wherein said medium additionally comprises one or more compounds of formulae RI to RVI



wherein

R^0 is n-alkyl, oxoalkyl, fluoroalkyl, alkenyloxy or alkenyl, in each case having up to 9 carbon atoms,

b is 0, 1 or 2,

Y^1 is H or F,

Alkyl* is a straight-chain alkyl radical having up to 9 carbon atoms,
and

Alkenyl or Alkenyl* is, in each case independently of one another, an alkenyl radical having up to 9 carbon atoms.

48. (Previously Presented): A medium according to Claim 24, wherein X^0 is F or OCF_3 and Y^2 is H or F.

49. (Previously Presented): In a method of generating an electro-optical effect using a liquid-crystalline medium, the improvement wherein said liquid-crystalline medium is according to Claim 24.

50. (Previously Presented): An electro-optical liquid-crystal display containing a liquid-crystalline medium, wherein said medium is according to Claim 24.

51. (Previously Presented): A medium according to Claim 24, wherein L is F.

52. (Previously Presented): A medium according to Claim 24, wherein m is 1.

53. (Previously Presented): A medium according to Claim 24, wherein Z^1 is a single bond, $-CF_2O-$, $-OCF_2-$, $-C_2F_4-$, $-CH_2O-$, $-OCH_2-$ or $-COO-$.

54. (Previously Presented): A medium according to Claim 24, wherein R is a straight-chain alkyl or straight-chain alkenyl radical which is monosubstituted by CN or CF_3 .

55. (Previously Presented): A medium according to Claim 24, wherein R is a straight-chain alkyl or straight-chain alkenyl radical which is at least monosubstituted by F or Cl.

56. (Previously Presented): A medium according to Claim 24, wherein Y is F, OCF_3 , $OCHF_2$, CF_3 , $OCHF_2CF_3$, OC_2F_5 or $OCF_2CH_2CF_3$.

57. (Previously Presented): A medium according to Claim 24, wherein R is straight-chain alkyl, alkoxy, alkenyloxy or alkenyl having up to 10 carbon atoms.

58. (Previously Presented): A medium according to Claim 24, wherein A² is Phe, PheF, PheFF, Cyc, Che, Pyr, Dio, Dec or Nap,

Cyc is 1,4-cyclohexylene, Che is 1,4-cyclohexenylene, Dio is 1,3-dioxane-2,5-diyl, Phe is 1,4-phenylene radical, Pyr is pyrimidine-2,5-diyl, PheF is 2- or 3-fluoro-1,4-phenylene, PheFF is 2,3-difluoro- or 2,6-difluoro-1,4-phenylene, Nap is substituted or unsubstituted naphthalene, and Dec is decahydronaphthalene.

59. (Previously Presented): A medium according to Claim 24, wherein said compound of formula I contains not more than one of the radicals Bi, Pyd, Pyr, Dio, Dit, Nap or Dec,

Dio is 1,3-dioxane-2,5-diyl, Dit is 1,3-dithiane-2,5-diyl, Pyd is pyridine-2,5-diyl, Pyr is pyrimidine-2,5-diyl, Bi is bicyclo[2.2.2]octylene, Nap is substituted or unsubstituted naphthalene, and Dec is decahydronaphthalene.

60. (Previously Presented): A medium according to Claim 24, wherein A¹ is 2-fluoro-1,4-phenylene, 3-fluoro-1,4-phenylene, 2,3-difluoro-1,4-phenylene or 2,6-difluoro-1,4-phenylene.